

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Front Matter

Issue Date: Jan-1923

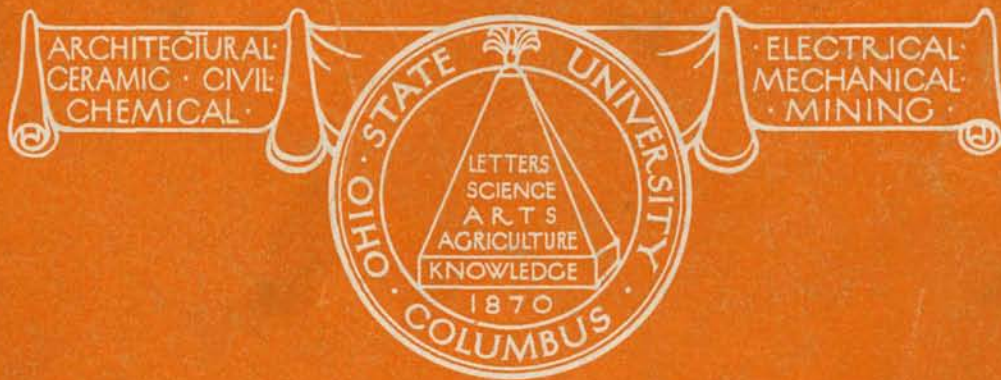
Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 6, no. 2 (January/February, 1923), 1-2.

URI: <http://hdl.handle.net/1811/34178>

Appears in Collections: [Ohio State Engineer: Volume 6, no. 2 \(January-February, 1923\)](#)

THE OHIO STATE ENGINEER



Member Engineering College Magazines Associated

PUBLISHED BY THE STUDENTS OF THE
COLLEGE OF ENGINEERING · OHIO
STATE UNIVERSITY · COLUMBUS · O
TWENTY-FIVE CENTS PER COPY

TA
1
036
v. 6, no. 2
Jan./Feb. 1923
copy 3



© O. E. CO.

*The Complete Project for
the Standard Oil Building
New York City*

CARRÈRE & HASTINGS
Architects

"The New Architecture"

A DISTINCTLY new tendency is apparent in architectural thought and design today. Architects are designing in masses — the great silhouette, the profile of the building has become of far greater importance than its detail.

There is a new vigor and ruggedness even in buildings which are conventionally classic in their detail. Masses mount upward, supporting the tower, accentuating its height. The new architecture is tending toward great structures rather than multiplicity of detail.

Certainly modern invention — modern engineering skill and organization, will prove more than equal to the demands of the architecture of the future.

O T I S E L E V A T O R C O M P A N Y

Offices in all Principal Cities of the World

7A1
C34
V.C. 1012
copy 2

THE OHIO STATE ENGINEER

Entered as second-class matter May 15, 1922, at the postoffice at Columbus, Ohio, under the act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized December 8, 1922.

CONTENTS

	Page
COLUMBUS' NEW WATER SUPPLY DAM AND RESERVOIR— By C. B. Cornell, ex '02, Associate Member American Society, C. E. Field Engineer, Bureau of Water Works Extension.....	3
AN EXCHANGE PROFESSORSHIP WITH IOWA STATE UNIVERSITY—A Teaching Experi- ment—By Owen E. Williams, Assistant Professor of Engineering Drawing.....	6
PRESENTATION OF THE JOSEPH SULLIVANT MEDAL	7
ADVENTURES IN ARCHAEOLOGY—By John H. Jefferson, C. E., '23.....	8
THE FOUR QUARTER PLAN FROM AN ENGINEERING STANDPOINT— By E. A. Hitchcock, Dean of the College of Engineering	11
COLONEL EDWARD ORTON, JR.— By Ross C. Purdy, Secretary of the American Ceramic Society	12
RELIEF MAP OF OHIO— By C. E. Sherman, Head of Civil Engineering Department.. ..	14
CRANKS AND COUNTERSHAFTS.....	15
NOTES OF THE CAMPUS.....	19
ALUMNI NEWS	21

*COLOR AND
CATALOG WORK*

The Phillips Printing Co.

COMMERCIAL AND
PUBLICATION PRINTING

MAILING CARDS
CALENDARS

Tags and Labels of Every Description



257 CLEVELAND AVENUE

CITIZENS 9077
BELL MAIN 6010

A Complete Set of all

**McGRAW-HILL
BOOK COMPANY**

***TEXTBOOKS on
ENGINEERING***

ON DISPLAY AT

THE CO-OP
HAYES HALL -- BASEMENT

TIMKEN

Tapered

ROLLER BEARINGS



F r i c t i o n

Friction, from the beginning of time, has controlled man's progress, either as a friend or as an enemy.

Earliest evidence of the friendly use of friction was the rubbing of the hands and body to keep warm and finally the rubbing of a pointed stick to start a fire. But friction, like the fire which it starts, is, in many ways, man's formidable enemy.

In the operation of machinery and in the development of all automotive vehicles, friction must be held absolutely under man's control; or else, the mechanical power which has carried man from savagery to his present high estate, would be so wasted as to hold progress and development at a standstill.

Without anti-friction bearings (as they are called) machinery in general would have remained as in great-grandfather's day. No railroads would streak across the land—no motor cars—no trucks—not even power-driven boats could ply.

In this battle, against "enemy" friction, human inventive genius has progressed rapidly from the early cumbersome types of soft, slippery metal collars which encircled axles and shafts—through various applications of balls and rollers—to the tapered roller bearing of today, as typified in the product of the Timken Roller Bearing Company;—

It has progressed from those early nuisances that required greasing or oiling every few hours to the Timken Tapered Roller Bearing of today that requires attention as infrequently as every year or two.

Here we have a light, compact and self-contained device that is friction's absolute master. For not only do Timken Tapered Roller Bearings hold friction to a negligible minimum—

But in so enabling wheels and shafts to revolve at frightful speeds with ease and safety—

Timken Tapered Roller Bearings, at the same time, carry all the loads that may be thrust upon them regardless of the direction from which these loads may come. No matter how, nor where, nor when that shock or load is applied—

Your Timken Tapered Roller Bearings rest snugly in their various housings, absorbing or deflecting those blows—

The while your motive power is being delivered through these bearings, without interruption, to the driving wheels—

And finally, when that wear which *must* follow all motion becomes apparent,—a simple adjustment and your Timkens function as when new.

The Timken Roller Bearing Co
CANTON, OHIO

